

FIG. 1

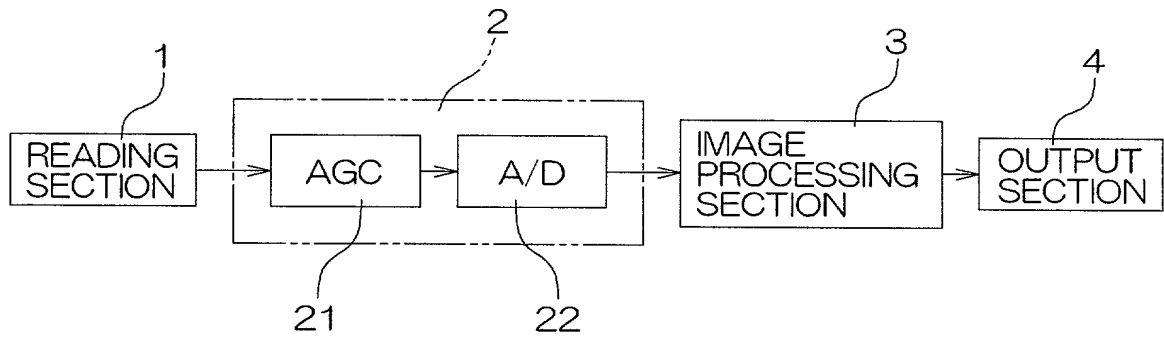


FIG. 2

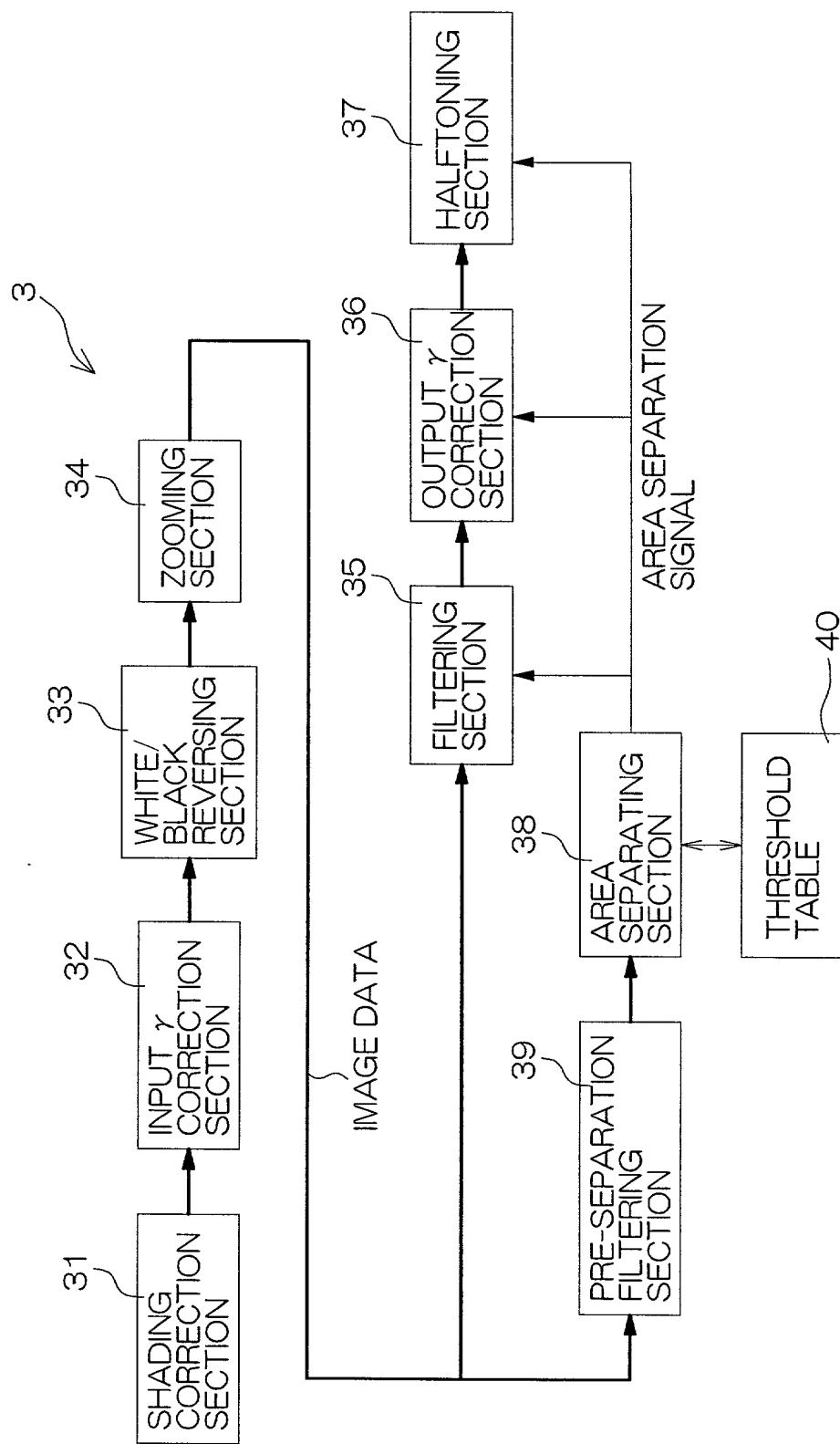


FIG. 3

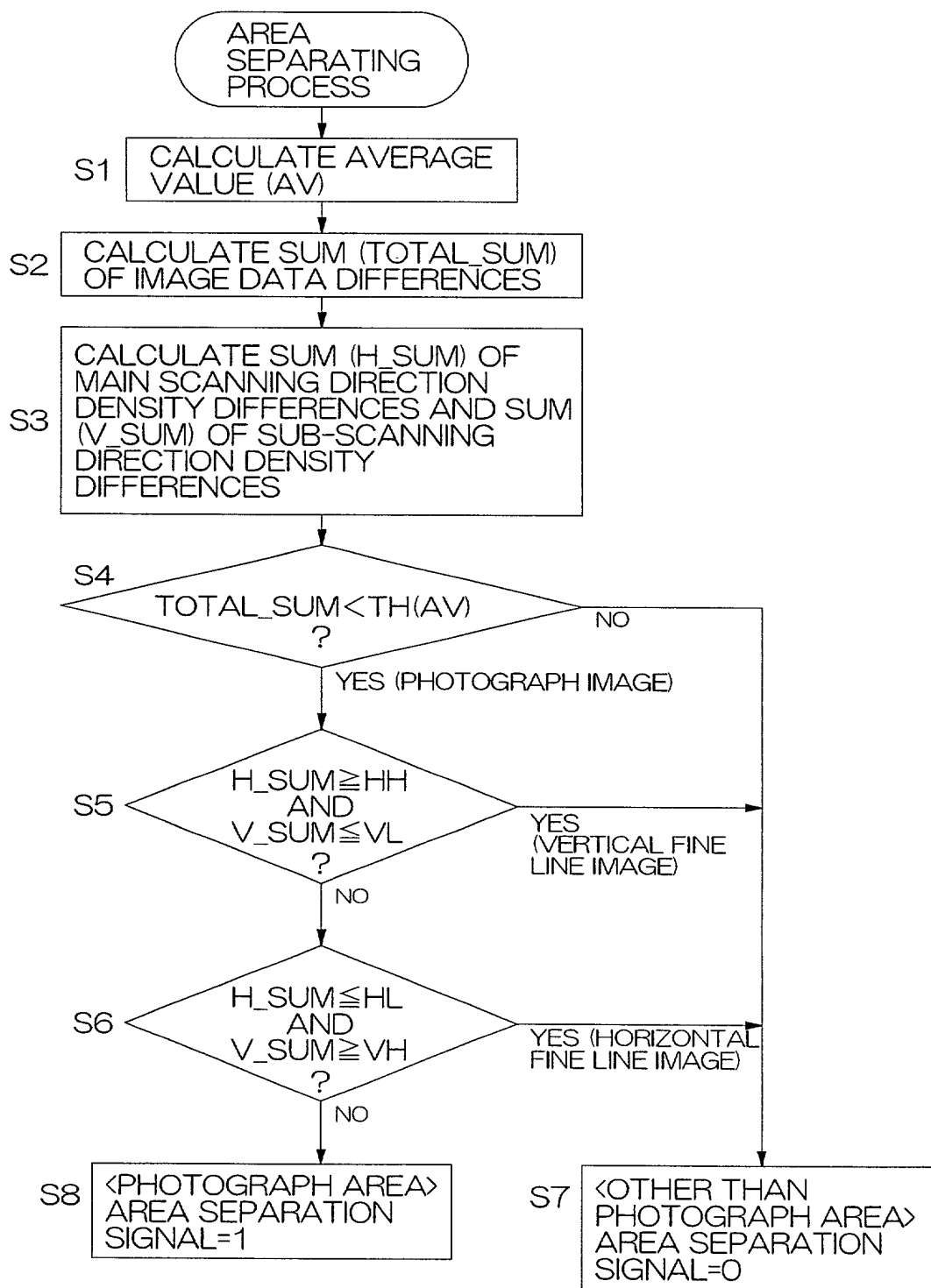


FIG. 5

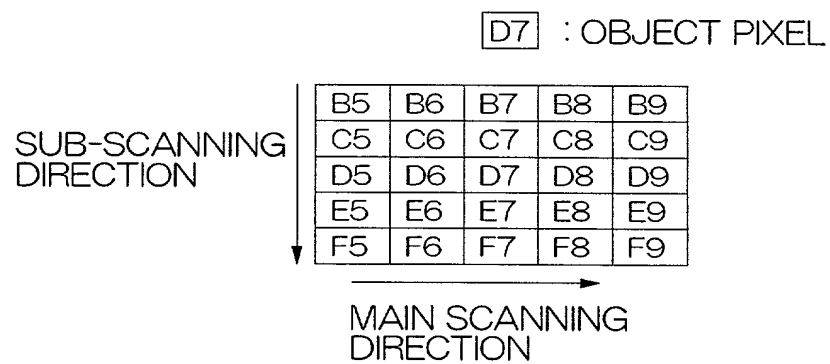


FIG. 6

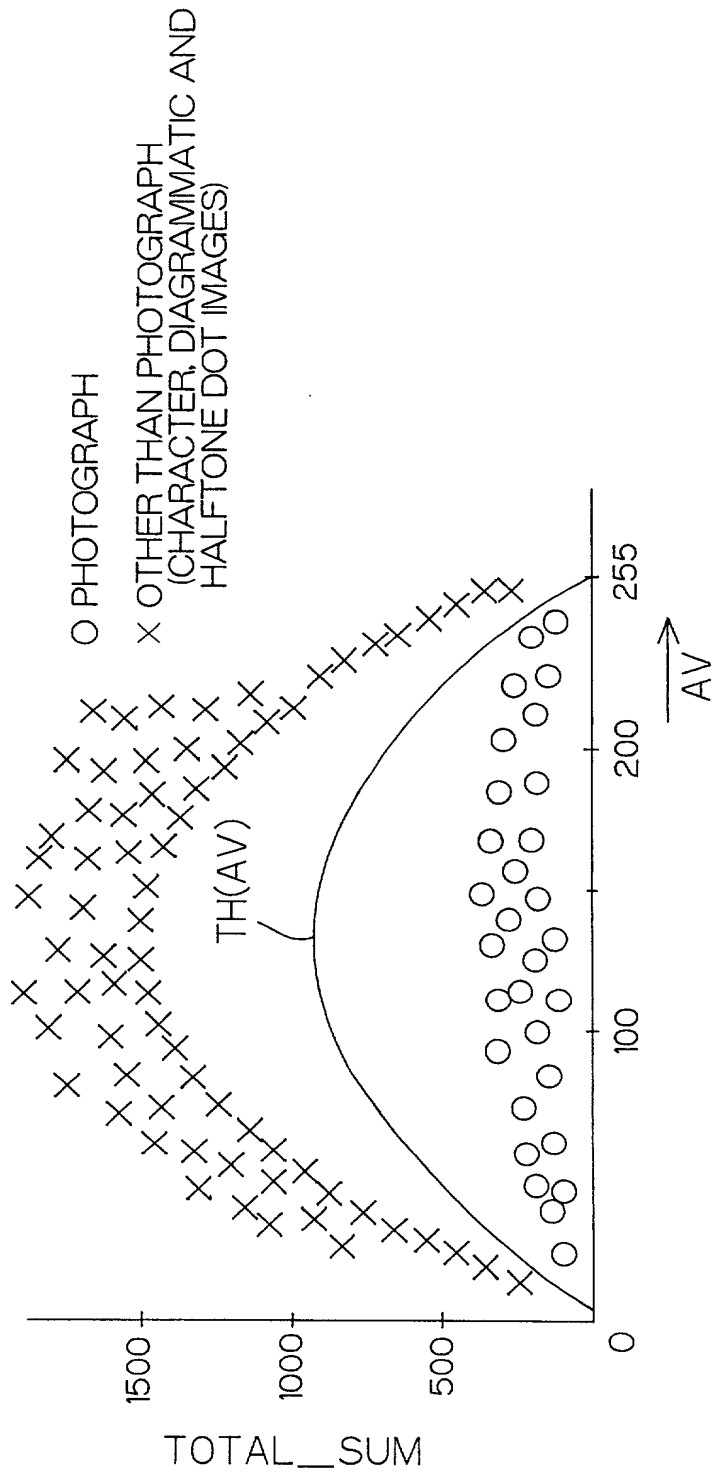


FIG. 7

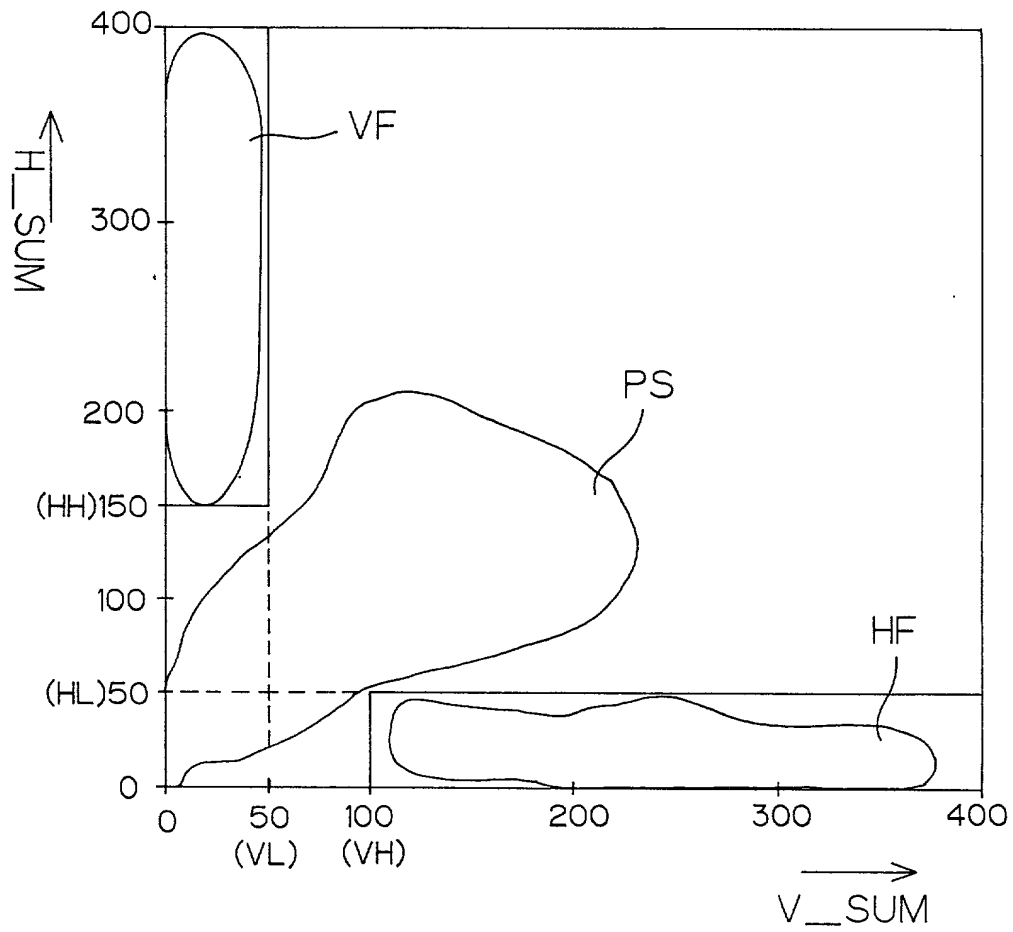


FIG. 8(a)

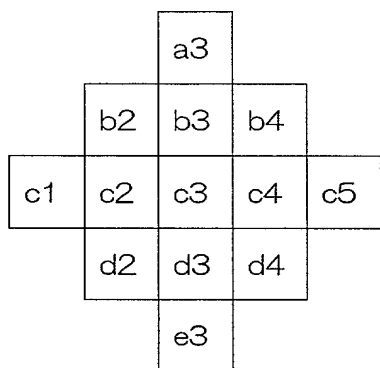
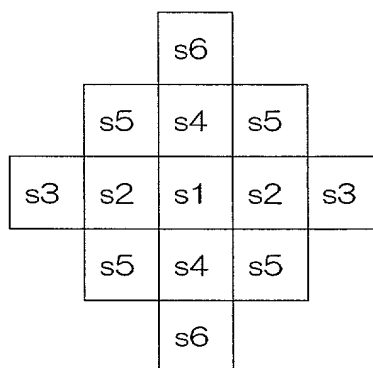


FIG. 8(b)



MAIN SCANNING DIRECTION
SUB-SCANNING DIRECTION

FIG. 9

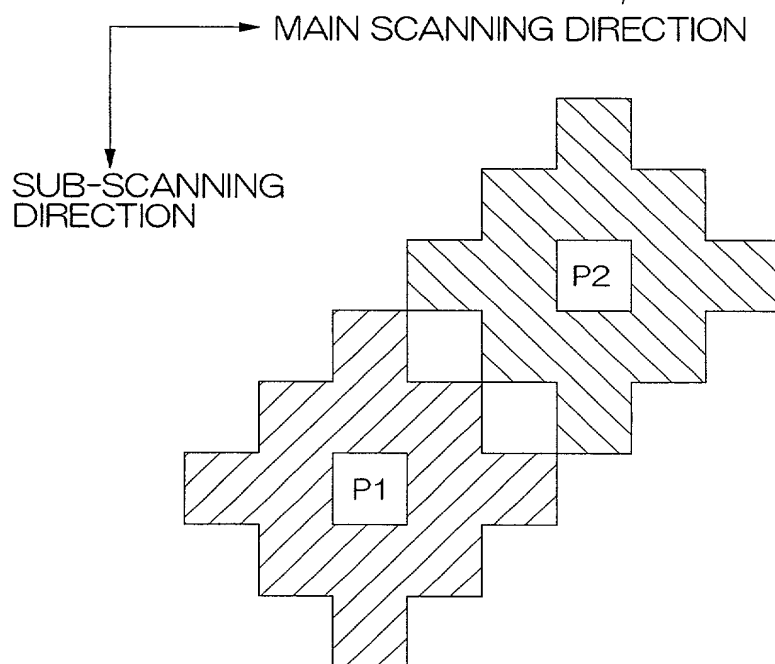


FIG. 10

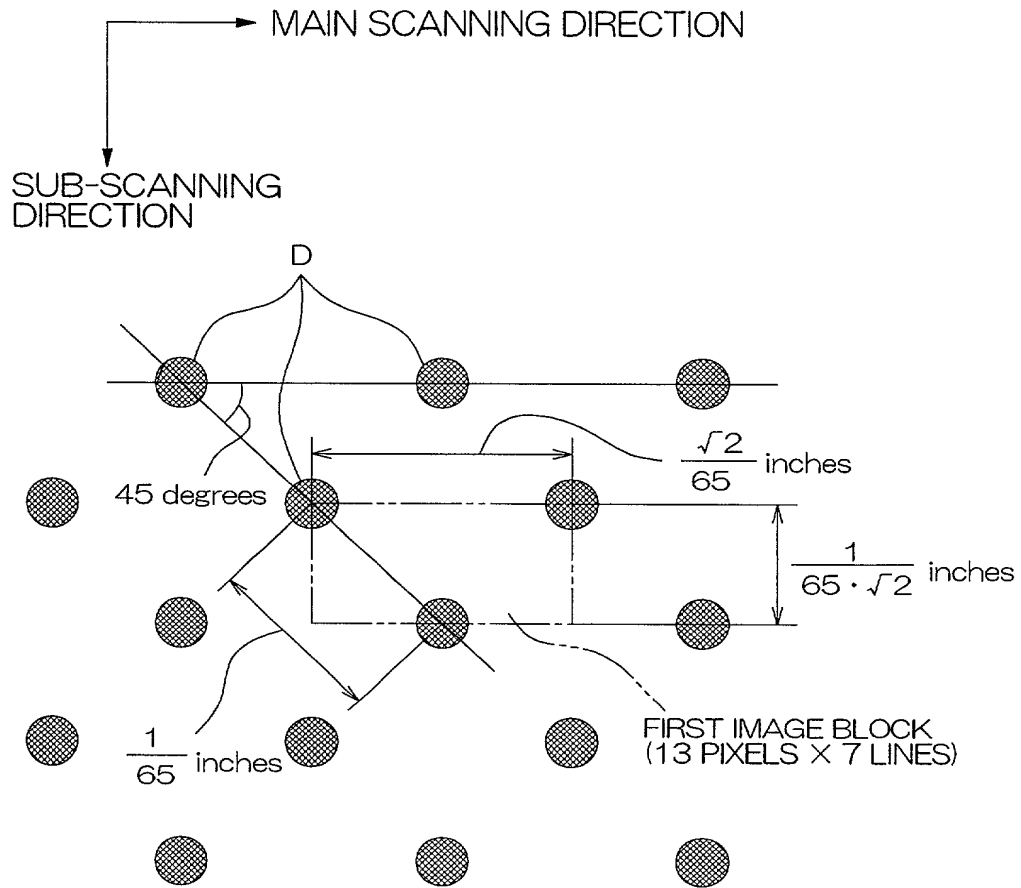


FIG. 11

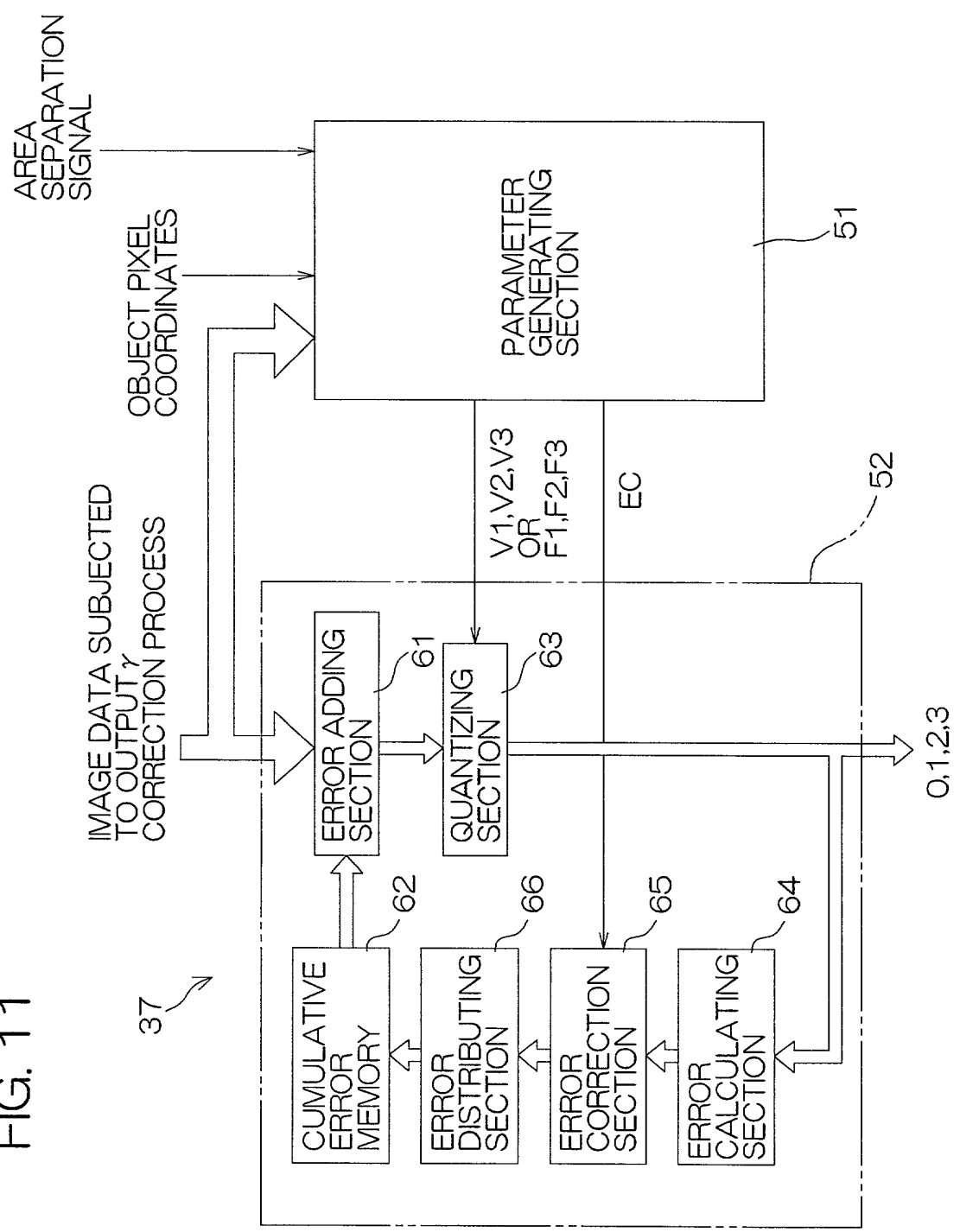


FIG. 12(a)

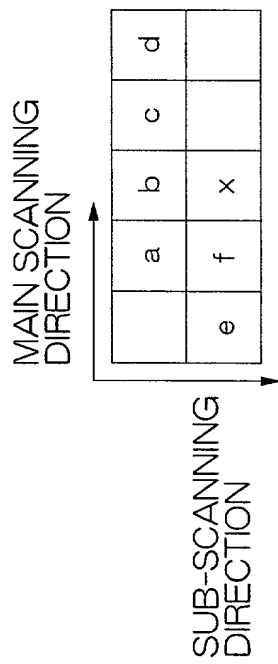


FIG. 12(b)

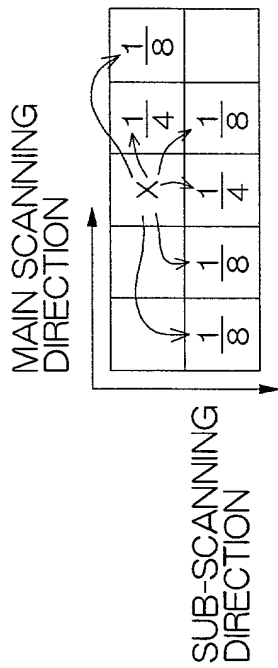


FIG. 13

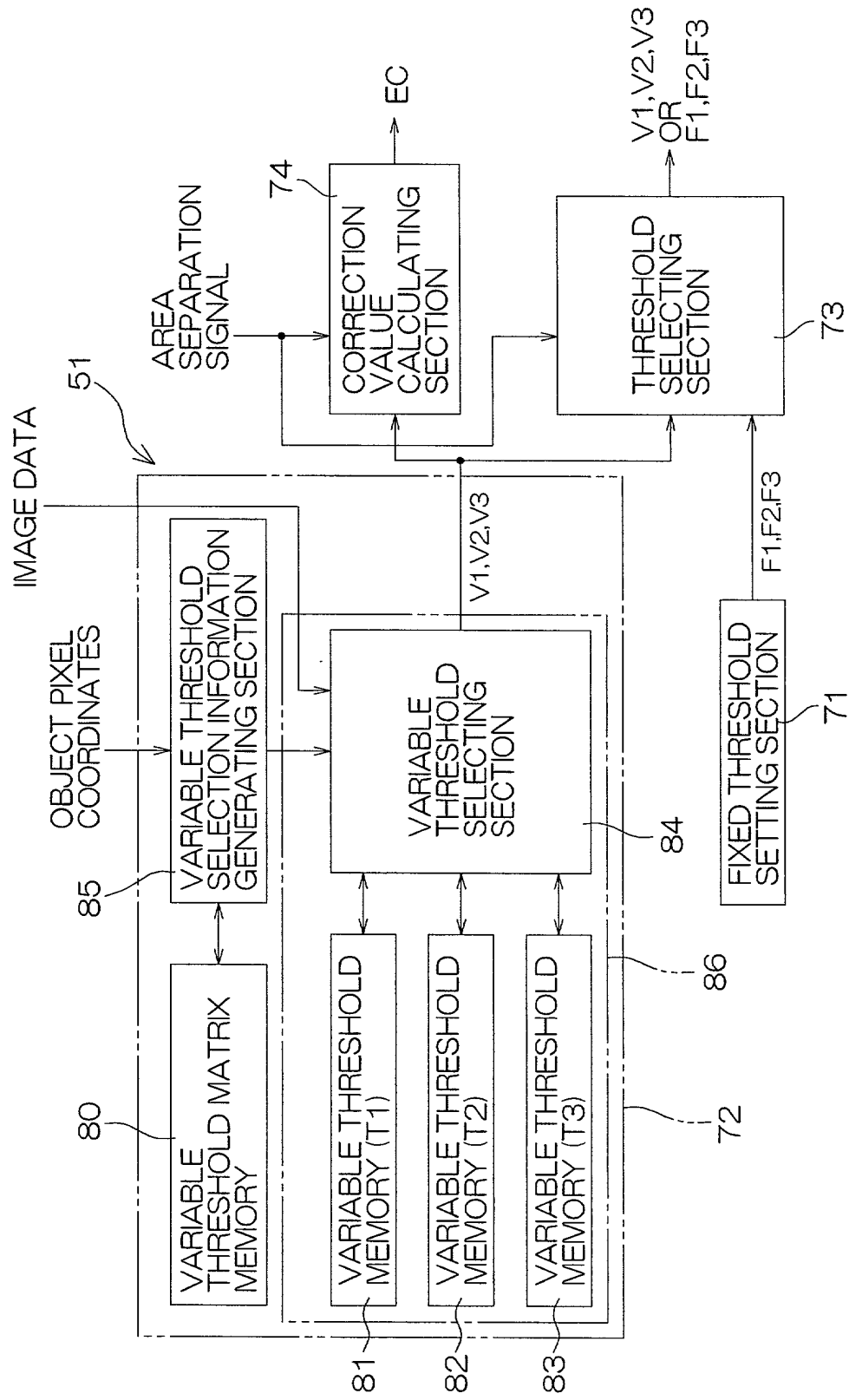


FIG. 14(a)

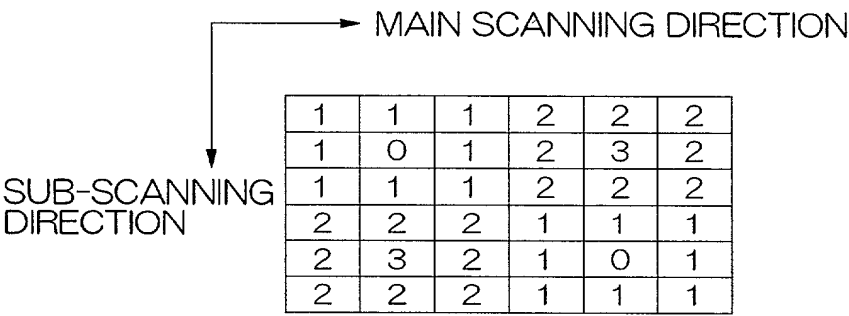


FIG. 14(b)

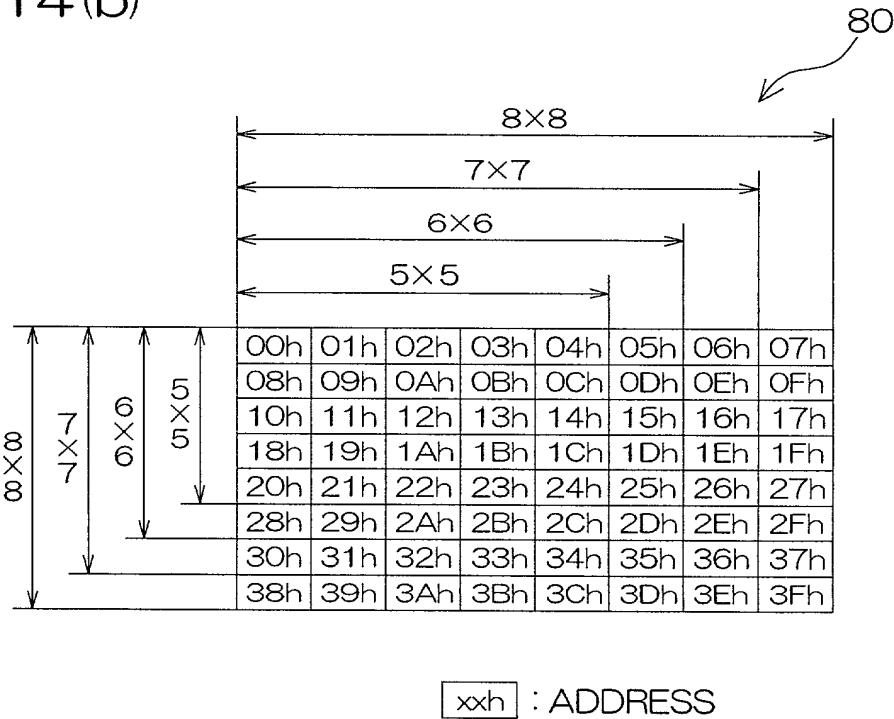


FIG. 15

VARIABLE THRESHOLD
SELECTION INFORMATION
(MATRIX ELEMENT VALUE)

VARIABLE THRESHOLD
SELECTION INFORMATION
(MATRIX ELEMENT VALUE)

VARIABLE THRESHOLD
SELECTION INFORMATION
(MATRIX ELEMENT VALUE)

| DATA VALUE OF OBJECT PIXEL | VARIABLE THRESHOLD 1(V1) | | | | VARIABLE THRESHOLD 2(V2) | | | | VARIABLE THRESHOLD 3(V3) | | | |
|----------------------------------|--------------------------------|-----|-----|-----|--------------------------------|-----|-----|-----|--------------------------------|-----|-----|-----|
| | 0 | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 0 | 1 | 2 | 3 |
| 0~7 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
| 8~15 | 100 | 100 | 140 | 155 | 100 | 115 | 140 | 155 | 100 | 127 | 140 | 155 |
| 16~23 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 24~31 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 32~39 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 40~47 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 48~55 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 56~63 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 64~71 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 72~79 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 80~87 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 88~95 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 96~103 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 104~111 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 112~119 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 120~127 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 128~135 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 136~143 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 144~151 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 152~159 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 160~167 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 168~175 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 176~183 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 184~191 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 192~199 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 200~207 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 208~215 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 216~223 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 224~231 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 232~239 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 240~247 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |
| 248~255 | 50 | 70 | 155 | 205 | 50 | 100 | 155 | 205 | 50 | 130 | 155 | 205 |

T1

T2

T3

FIG. 16

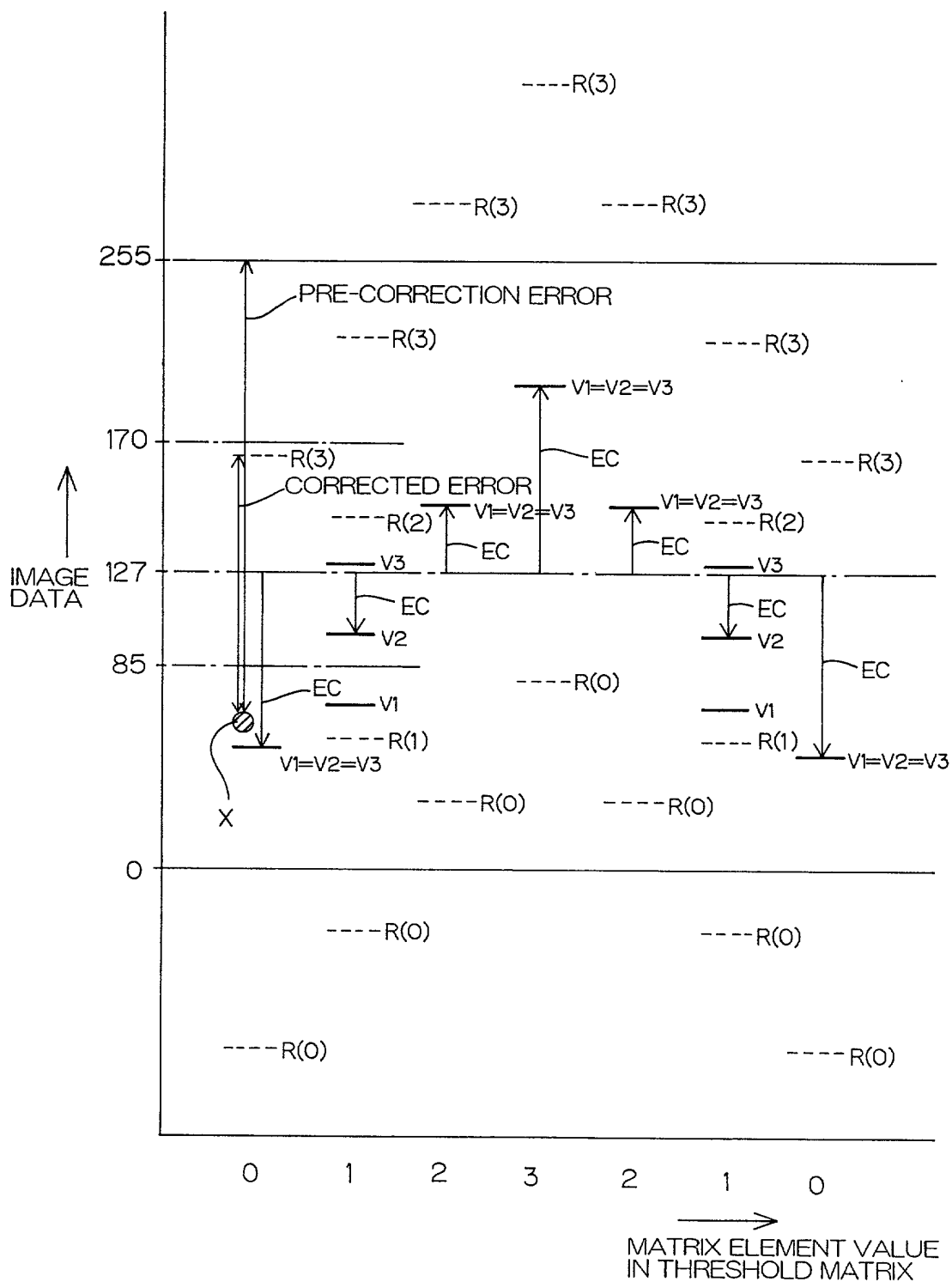


FIG. 17

